

US006242594B1

(12) United States Patent Kelly

(10) Patent No.: US 6,242,594 B1

(45) **Date of Patent: Jun. 5, 2001**

(54) PROCESS FOR GLUCAN PREPARATION AND THERAPEUTIC USES OF GLUCAN

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 08/894,773

(22) PCT Filed: Mar. 13, 1996

(86) PCT No.: **PCT/AU96/00138**

§ 371 Date: **Dec. 2, 1997** § 102(e) Date: **Dec. 2, 1997**

(87) PCT Pub. No.: **WO96/28476**

PCT Pub. Date: Sep. 19, 1996

(30) Foreign Application Priority Data

Mar.	13, 1995 (AU)	PN1661
(51)	Int. Cl. ⁷	C07H 1/00 ; C07H 1/06
(52)	U.S. Cl	536/123.12 ; 536/123.1;
		536/124
(58)	Field of Search	536/123.1, 123.12,

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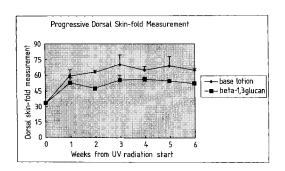
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(57) ABSTRACT

A process for the production of β -3-(1,3)(1,6) glucan from a glucan containing cellular source is described, together with compositions and uses/methods of treatment involving glucan. The process of the invention comprises the steps of: (a) extracting glucan containing cells with alkali and heat, in order to remove alkali soluble components; (b) acid extracting the cells of step (a) with an acid and heat to form a suspension; (c) extracting the suspension obtained of step (b) or recovered hydrolyzed cells with an organic solvent which is non-miscible with water and which has a density greater than that of water separating the resultant aqueous phase, solvent containing phase and interface so that substantially only the aqueous phase comprising β -(1,3)(1,6) glucan particulate material remains; wherein the extraction with said organic solvent provides separation of glucan subgroups comprising branched β -(1,3)(1,6)-glucan, and essentially unbranched β -(1,3) glucan which is associated with residual non-glucan contaminents; and (d) drying the glucan material from step (c) to give microparticulate glucan.

22 Claims, 1 Drawing Sheet



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